

Product datasheet for **VC100553**

NS2 (NC_012729) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NS2 (NC_012729) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>The Viral ORF clone VC100553 represents NCBI reference of YP_002916059 with codon optimized for human cell expression

Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCTTTAGCGCACCGGTCCTTAGGGCCTTCAGCCAGCCAACCTTCACATATGTGATCAAGTTCCCTT
ATAATAATTGAAAGAAGACGAGCACCTGCTGTGGTCCCTGCTGGCCCCAGGAAGTGAATCACTGATGAT
TCAGCTGAAAACTGCGCGCCGCATCCCAGGACGACCCTATTAGAGAGGATATCCTGTGTAGTCTGGCC
GACCTGCATTACGGAGCCGTGTTTGCAGGCTTGTATATCGCCACCAGCACACTTATGGGCCAGAAGC
AGCGCACCTGTTCCCGGTGTGACATTGTCTGCCAAAGCGAGATAGGGTCCGACTTTCTGCATTGCCA
CATTCTGGTGGGCGGTGCAGGTCTGTCCAAACGGAATGCCAAAATTAGCCGGGCTACTCTTTGGGACTG
GTGATGGCTGAACCTACGCAGCGCTGTAAGCTGTTGCTCGCCACAGACCCTCGAGCCAGCAGAGGCTA
CCATTTATCATGAGCTTAAAAGGATCGAAAGAGAAGCCTGGTCAGGCCATACCGCAATTGGGTCCAGAT
CTTGCAATACAAAGACAAGCGGGGGGACCTGCACGCCAACCCATCGACCCTGCGCTTTCTGAAACAC
TATATCCTCCAAAGAATAGACTGATATCACCGAGCAGCAAGCCTGATGTGTGTACGAGTCCCGATAACT
GGTTATCCTGGCCGATAAAACATACTCTCATACCATAATCAACGGCCTCCCACTGCTGGAGCGGAACAG
AAAGGCTTACCTGCAGGAGCTGGAATCCGAGGTGATACCTGGACCTTCAGCAATGGCCTTCGGAGGTAGA
GGGGCATGGGAGCAACTCCCTGAGGTTGGGGAACAGCGACTGATCACTAGCAACACATCCACTGCTTACA
AAGCAAATAAGAAAGAGAAATGATGCTCAATCTTCTGGATAAATGCGACGAGCTGAATCTCCTTGTGTA
CGAGGACTTGTCTCCGCGTCCCGGATCTGTTGCTGATGCTCGAGGGTCAGCCAGGAGGGGCTCGATTG
ATAGAACAGGTGCTGGGAATGCACCATATTAAGTCTGTGCAAAGCATACTGCCCTGCTTTTTGTTTC
ACCTCCACCCAGACCAGCTCCTCACCTCCTCCAATAAGGCACTCAAGTTGTTGTTATCCAAGGATATAA
TCCGCTGCAAGTGGGCCACGCCATATGTTGCGTCTGAATAAACAGATGGGGAAGCAGAATACCATTGT
TTTTACGGACCTGCTAGTACAGGAAAACCAATTCGCTAAAGCTATTGTACAGGGCGTGAAGCTCTATG
GATGCGTTAACCACCTTAATAAAGGTTTGTGTTCAACGATTGCAGACAACGGCTGATCATCTGGTGGGA
GGAATGCCTGATGCATCAGGACTGGGTGGAGCCCGCAAATGCATCCTCGGGGACAGAAATGCCGGATT
GACGTGAAACATAAGGATTCGTCCTCCTGCAGCAAACCCCGTGATAATTTCCACGAATCATGACATTT
ATAGCGTCGTGGGAGGGAACACGGTCTCCACGTGCACGCCGCCCTTGAAGGAAAGGGTGTGCAACT
GAATTTTATGAAGCAACTCCACAGACTTTTGGAGAAATTAGCCCTAGTGAATCGCAGAATTGCTCCAG
TGGTGTTCACAGGATGATTGCACACTTGTGGATTCAAGCAGAAGTGAATCTCGACAAAGTGCCTA
ATCTTTTTCCATAGGGGACTTGTGCCCTACTCATAGTCAAGATTTTACCCTCCACGAAAACGGCTTTTG
TAGTGACTGTGGCGGATATCTCCCTCATAGTGCTGACGACAGTGTGTATACTGACGTGGCAGCGAGACT
ACTTCAGGAGATTACGACCCGGTAACCTGGGGGACACTGATGGCGAGGACTCTAAGTCTGAGGCATCCG
AGGTGGACTATTGCCCGCGAAGAAGCGGCGAGTTATCAGCGGACTCCCCCAATTCACCAGTGTGAGG
TCCCAGTTTGTCTACCTTCTGGATACTGGCAGTCCCAGCCACGGGACGATGACGAGCTGCGCATCTAC
GAGGAGCAGGCATCCCAGTTCAGAGAATACTAAGAGTACAAGCGAGCGGAAGAGGCCCAACTCGGGG
AGTCCCAGGAACCGCAACCTGAGCCAGACCCGACAGCTTGGGGAGAGAAGCTGGGCGTTTGTCCAGTCA
GCAACCCGGCCAGCCTCAATCGTGCTGTATTGCTTTGAGGACCTCCGGCCAAGTGACGAAGATGAAGGT
GAAAACATCGGGGAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC100553 representing YP_002916059
 Red=Cloning sites Green=Tags

MAFSAPVLRAFSQPTFTYVIKFPYNNWKEDEHLLWSLLAPGTESLMIQLKNCAPHPEDDPIREDILCSLA
 DLHYGAVFAKACYIATSTLMGQKQRTLFPKCDIVCQSEIGSDFLHCHILVGGAGLSKRNAKISRATLLGL
 VMAELTQRCKLLLAHRPFEPAEATIYHELKRIEREAWSGHTGNWVQILQYKDKRGDLHAQPIDPLRFLKH
 YILPKNRLISPSSKPDVCTSPDNWIFILADKTYSHIINGLPLLERNRKAYLQELESEVIPGPSAMAFGGR
 GAWEQLPEVGEQRLITSNTSTAYKANKKEKMLNLLDKCDELNLLVYEDLVSACPDLLLMLLEGQPGGARL
 IEQVLGMHHIKVCAKHTALSFLFHLHPDQLLTSSNKALKLLLIQGYNPLQVGHAICCVLNKQMGKQNTIC
 FYGPASTGKTNFAKAIIVQGVRLYGCVNHLNKGVFVNDQRRLIIWEECLMHQDWVEPAKCILGGTECRI
 DVKHKDSVLLQQTPVIIISTNHDYISVVGNTVSHVHAAPLKERVQLNFMKQLPQTGFEISPSEIAELLQ
 WCFNEYDCTLAGFKQKWNLDKVPNSFPIGDLCPHSDQDFTLHENGFCSDCGGYLPHSADDSVYTDVASET
 TSGDYDPGNLGD TDGDSKSEASEVDYCPPKRRVISA TPNSPVS GPSLSTFLDTWQSQRDDDELRIY
 EEQASQFQKNTKSTSEREEAQLGESQEPQPEPPTAWGEKLGVCSSQPGQPPIVLVYCFEDLRPSDEDEG
 ENIGGD

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NC_012729

ORF Size: 2328 bp

OTI Disclaimer: The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NC_012729.2](#), [YP_002916059](#)

RefSeq ORF: 2328 bp

Locus ID: 7922604

MW: 86.8 kDa